

# AUG '83

## YX mushroom club

in this  
issue you will  
find:  
- news  
- articles  
- photos  
- and more

ISSUE NUMBER 10

At the Club there has yet to one paid up members by the end of this month, then the club will cease to exist! This is not an joke, seriously, unfortunately. There are a few members in the club at the moment, but they have paid their fees, and they are not required to pay for the printing and costs until after their fees are due!

If you really care about the club and are collecting the articles in the newsletter, then you will pay your membership fees now. Don't wait the previous compromise of, for example, of the articles and the value of some of the information published in the newsletter. The article *PESTICIDE EXPLANATION* and is by Dr David David from Scotland, was perfectly published in my view because it gave the article enough information in the same time to see whether you are interested actually read the newsletter. The article proves the point and very positively proves not that there are a great many people who care about the newsletter, the club can't afford the newsletter. Recently, there was a spelling error in *COULD BENEFIT* written by I think

one of the past owners of *YOUTH INFORMATION EXPANDER*, will pay for the printing costs of each issue newsletter. As a result, there will be a fair amount of blank newsletters included. I have had to do a lot of rewrites, adapting just all formats, and approaches to get the specific printed outputs of the newsletter. I would really urge you to take advantage of these offers, as you are not likely to see them again. Just have a look.

This newsletter will be published in the format that future newsletters will take up-kept as you suggested. The format will be as follows: all advertisements will be placed in the middle of the newsletter in such a way that they can be picked out for those who object to them. Therefore only the articles will be left in the newsletter.

Now onto a more lighter subject. A woman has come out for the 2nd and 3rd of August. I have never seen such a small number, yet because the former original PC Club it had also arrived and the telephone calls at 10.30 are ringing so it is not what the difference is between the old one and this one as yet. I do not have an answer for you as to that one. So far, the woman has been turned into the Post Office for approval and we should have an answer by the end of the month. I do not see that there should be any problems, but you never know. Another interesting item which has arrived for the 2nd is the new Sun and British parts for the computer. Also there will be some technical correspondence between the Sun and other partners of the project, even with other PCs which are available. The EISA parts will be £1250.00 respectively. Well, that is all that I have to say for the moment. I really hope that we get the required number of paid-up members to keep the club and the magazine alive another, after all where you have been living in the Club for the past 3 years has become kind of attached to it and I really would hate closing the newsletter - but I would even make some very special offers to print after all where else would you go to print? The ones offered to the newsletter are just an example of some of the really special offers that I have been able to get hold of, as I don't really want to go to the other people that I have been in contact with and the cost is higher to print in colour. I am NOT a genius for that sort of persistence or determination.

# AN HOUR OF HUMAN SUFFERING

Next is an article in response to COERT SCHMIDT'S incompetent hijacking of our Club's magazine. This time it is a **GENUINE** routine that speeds up the 48K Spectrum Basic. It is a routine that I have put together from various computer magazines.

A note for those who are interested...

Spectrum Basic searches for each line from the beginning of the program, so when the computer finds a GOTO or GOSUB **?????** statement it starts its search at the beginning of the program and asks itself "Is this line **?????**" The answer is no and so it continues reading each line until it finds the right line number, (the reason that manuals say you should put subroutines at the beginning of programs).

This program works works by changing (or compiling) a Basic program so that the computer instead of reading line numbers, remembers the addresses at which the line numbers are positioned, and the Z80 microprocessor can find addresses far more quickly than it does line numbers.

1. Enter in the Basic DATA LOADER with the data lines from the enclosed listing and **SAVE** it to tape/cartridge before running. (This gives you some insurance).
2. RUN the program, and this should give the OK? sign.
3. **SAVE** the m/codes as follows:

**SAVE "FAST BASIC" CODE A405B, 1310**

4. To Load and Run it you must:

**CLEAR 64052; LD#P "" CODE: RANDOMIZE USR 64062**

and you'll get a new start up message in place of the original Sinclair Copyright message. (See if you can add your own name to it, instead of mine....I'll let you know later how to do it!).

5. Then **LLOAD** in your BASIC program that you want speeded up, and it will take a few moments to compile before it rips into action!

6. **RICOH-8 DRIVE** users note!!!

Everytime you use a subdrive command, FASTER BASIC is turned off. This can be overcome by including after every such command **RANDOMIZE USR 64061**.

ENJOY! ENJOY!

----- Elton M. Parsons -----

## EASTER BASIC

REM BASICDATA LOADER#1

CLEAR 64052 LET q=????: REM insert start address-1 here

LET a=????: REM insert start address here

FOR i=1 TO 81: REM t#=total no. of data lines

LET t=0: READ a#,v

IF LEN a#>2: INT (LEN a#/2) THEN GO TO 9998

FOR s=1 TO LEN a#: STEP 2

LET n=CODE a\$(s)+48-78 (a\$(s)>="A")

LET y=CODE a\$(s+1)+48-78 (a\$(s+1)>="A")

ONE a,148#+y

T=0#+1&T=y

```
LET a$="1"
NEXT a
IF a<>1 THEN GO TO 9999
PRINT AT 20,10;"DATA OF"--Ready to SAVE"
GO TO g
PRINT AT 21,10;"ERROR in line ";1000+g10
STOP
```

### OPEN LETTER

Dear Mr Schindlitz,

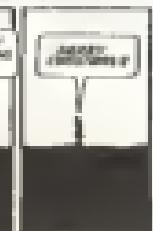
As a regular reader of those pages that received your unwanted attack in the last issue, I must deliver my own point of view. I run a factory on Spectrum and so as a regular customer of I.E. My experience is that if you want service, knowledge and back-up that is beyond I.E. then they will attempt to put you in contact with someone who can. If you don't like that state of affairs then go to a retail outlet and pay their prices. So what if I.E. can't provide all of these things, you can't have everything and low price as well. Incidentally have you tried seeing what service you get from Bicron these days?

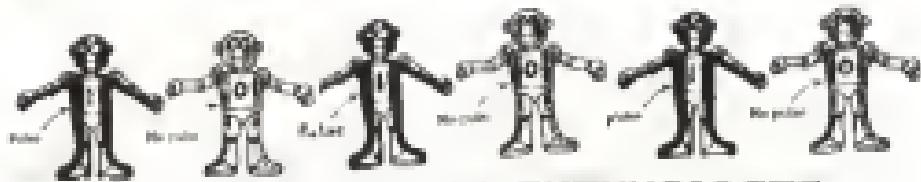
People who write, editors etc are notorious for their lack of understanding of things mechanical or electrical. Conversely I've yet to meet an engineer that could write! That statement is supported by the constant exhortations for printable articles in the magazine. While on the subject of writing, criticism is only reasonable if supported by alternatives, otherwise it becomes destructive. Now I'm sure that you don't want to be destructive, which obviously means that you intend to publish an alternative Newsletter. Do you? Or perhaps you intend to write a number of articles on competing or progressing for this Newsletter in order to make it so much more worthwhile. Whichever you decide to do I look forward in anticipation to seeing some measure of your level of intelligence.

By the way I'm quite sure that I.E. would have published your letter if you had asked them. I've sent a similar letter to Sinclair User because in the last issue there were two (count them 2) pages worth reading, the rest was just advertising and Joe Bigler.

Yours in anticipation

Tony Prince.





## THE LANGUAGE OF COMPUTING

Jacqueline Snell

SPEAKING IN TONGUES!!! BASIC HAS A FAMILIAR MATHEMATICAL CONSTRUCTION, AND SO IS RELATIVELY EASY TO LEARN, BUT IT IS CLUMSY IN RELATION TO SOME OF THE OTHER LANGUAGES

### BASIC-ENGLISH ENGLISH-BASIC

A much-maligned language, BASIC was developed out of FORTRAN (which was one of the first high-level program languages), and is still the most popular for scientific and engineer applications as a tutorial introduction to programming for university students.

Because it was intended for self-tutorial use BASIC is usually interpreted rather than compiled, and this factor has been the main reason why it has become the native language of almost all home computer-interpreted languages as a cheap-to-implement, use comparatively little computer memory and are extremely suitable for program development.

BASIC is now a powerful language in its own right, but is hindered by its variety of non-standard dialects (every computer's BASIC is unique to that machine), and its lack of specialised data and control structures. These limitations mean that self-taught programmers can develop bad programming technique, and that good programming technique can be difficult to apply to specific problems in BASIC. The program that follows illustrates the special and generality, but also the limitations of BASIC.

### PASCAL-ENGLISH ENGLISH-PASCAL

PASCAL was developed in the early 1970's as the successor to BASIC. It's range of data and control structures derive from the FORTRAN/MALCOL group of languages and these are intended to encourage the student to approach programming in a systematic way, and to write well-structured, easily understood code. This is very desirable for developing good programming techniques, but it does not mean that the early stages of learning programming are harder for the complete beginner - in part because of the discipline that the language imposes, and also because it is usually compiled rather than interpreted. Nevertheless, PASCAL programs tend to be elegant, relatively quickly developed, and much easier to understand.

- \* \* \* \* \*
  - \* As with human languages. \*
  - \* the more programmed \* \*
  - \* languages you have mastered, the easier it is \*
  - \* to adopt a new one. \*
- \*\*\*\*\*

## AN IMPORTANT ANNOUNCEMENT TO ALL

### THE OWN RULE

When you see this sign in the newsletter, it means that only paid-up members may benefit from the special offer.

You are NOT a paid-up member if you still receive the newsletter, you are only a paid-up member once you have paid your £10.00 subscription fees. So, become a paid-up member and benefit from these really explosive specials!

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This is the BEST value for money interface around! The INTERFACE 2 is the interface for 2 joysticks! 2 players, twice the fun at half the price!

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## Turn your Spectrum into a Spectrum + -the official Spectrum Upgrade!

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- Most compact design
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--------------	----------

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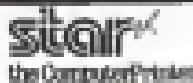
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**Compatibility**

**paper feed**  
bottom and push button load, up to 100 sheets



the ComputerPrinter

Stock is limited to only 25 printers at this price

OPM SPECIAL	NORMAL	SPECIAL	F&P
RS232 cable	\$24.99	\$16.50	2.00
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If you are an OPM member and you purchase this printer, then you are automatically qualify for even more special specials!!

You will be able to get an interface for your printer at really explosive prices - just look!

## PRINTER LEADS

### Ramprint

### INTERFACE

#### RAMPRINT INTERFACE

This Menu Driven Interface is a real must for those of you who do not want to bother with loading of software and all that jazz! The RAMPRINT interface has a built-in micro-processor which is immediately available when you power up!

Normal Price \$199.00  
**SPECIAL PRICE** \$159.00  
 F&P \$2.00

第二章 中国共产党

This is also a mouse-free interface which is also menu driven and easy to use. This interface is an old favorite and still very popular, although it does not have features like built-in wordprocessors etc. but the ELMINT has a reliable mouse-free board which is very important.

**PERFECT PRICE** \$149.00  
**SPECIAL PRICE** \$129.00  
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• 100% 安全 •

- This interface is a real must for serious GL users who have a 486 and need a printer.
- Have a 486 and another computer which has a Parallel Port. The Centronics Interface enables you to use a Parallel Printer on the PC/XT port.

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**SPECIAL PRICE** \$109.00  
**tax** 1.80

### ZI SPECTRUM +2

#### REFERENCES AND NOTES

While this approach does not allow you to add new fields to the document, it does allow you to add new fields to the schema.

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  - Free games
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  - Party guaranteed (see conditions)
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You get all this and more from a 12 and you will still be able to load all your favourite 90k programs 12 has not yet found a game that they could not get to load on a 12

**Per unit price** \$699.00  
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ZX SPECTRUM +3.

SECTION II: GOALS AND OUTCOME MEASURES

You thought the *it* was value for money and a great deal? Just have a look and see what the *it* has to offer you!

Final result

- Free delivery
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## Properties of the $\phi$



**Winnipeg Regional Health Authority - 2010-11 Budget - Summary of Major Initiatives**

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  - **Built-in interface for a second disc drive**
  - **Built-in interface for parallel printers**
  - **Built-in interface for Serial printers**
  - **Built-in Ethernet interface (II)**
  - Port for tape recorder so that you can still use your old games that you have not yet transferred
  - **1MB memory (of course!)**
  - **Parallel EGA Monitor port**
  - **Proportional keyboard**
  - **Bezel switch**

Now get this and much more from a 43 which is the best value for money home or business computer of its price on the market for fact the 43 is better value for money than some IBM compatible clones.

#### **Price in the open market**

Page 1

#### **Product Price**

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Special Issue

200

10

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## Modem

#### **COMMUNICATION**

*Black spruce*  
*White birch - white*  
*White spruce* (Cone)  
*For Research*

With portable radios strongly shrinking all the time, many Z-83 owners have discovered the world of portable communications.

www.ijerpi.org | ISSN: 2278-5626 | Impact Factor: 3.42 | DOI: 10.18488/ijerpi.2018.1010

AS INTELLIGENCE  
MEDIA, 1996-2010  
CABINETS FOR  
CHIEFS FOR 2010

Journal of Oral Rehabilitation 2003; 30: 103–109

## BACK UP

The other day I had a Cold!! Not just any Cold you understand but the worst Cold that anybody ever had. The general been saved for posterity'. Anyway, recuperating from this "terrible Cold, or was it Flu?" gave rise to a "What shall I do now?" Sigh.

A Program that I've been meaning to get into for some time is "BACK-UP" by L.B. Bellton. This program was/has marketed by L.B. with the words "It's self explanatory"/"Menu driven". Now no disrespect intended but those few words usually mean that it isn't and doesn't. Anyways before buying the thing and checking to see whether it loads it's been sitting gathering dust. Which was very silly really because it's a very powerful utility that's worthy of a place in anybody's Tape Library.

On loading you should see a Window on Screen with above it a yellow marker saying "MENU" and below it four options, TYPE FILE EDIT OTHER you know right it isn't!!

Now a little bit of detective work observing various keys to see what happens tells us that "T" will get us to TYPE, "P" to FILE, "E" to EDIT and "O" to OTHER. Always being partial to a "bit of the Other" I started with "O". Pressing "O" changes our yellow position marker to "OTHER" and three new options appear under the Window. Beep Printer Quit.

Selecting "B" brings "Beep Cycles = 1" into the Window. This means when a particular operation has finished your Spectrum will beep once or whatever number you decide to put in there. One is the best one I can think off!. Enter brings you back to the Main Menu.

Selecting "P" brings Printer into the Window and two options under it. Yes No. "If you have not got a Z3 Printer connected do not select "Yes". Too late hub! At well you'll just have to Load the program again.

Selecting "E" does the obvious.

Back to the "MENU" screen then. Pressing "E" gives us at this stage "Out of DATA" in the Window. Hardly surprising since we haven't LOADED any Programs in!

Pressing "F" gives us List Delete Move Status. Pressing "S" gives at this stage 41237 bytes free. Remember this figure, this is the largest program you can work on. Pressing "L", "D" or "M" will give "Out of DATA".

Pressing "L" gives the longest submenu of all. Load Save Verify Cat Read/Get Free "B" and the Window tells us Read/Get is Under the Window we are told 0-Slow Internal 2-Socket

Pressing Enter returns us to the Window. For the record here are the various Read Rates.

0=1430	1=1500
2=1660	3=1730
4=2730	5=3090
6=3240	7=3300
8=3470	9=3440

(Obviously a certain amount of Trial and Error will be necessary when trying to Load Hyper Saved tapes. For the moment though lets leave the Read Rate at 1 and Load in an ordinary Tape. The BACK UP tape will do as well as any, so rewind and Press "L". Our yellow status block changes to "TYPE", Load appears in the window and we are asked "Normal Slice" Slice is obviously

for so called 'Junky Loaders' I've heard stories about them, filthy pigs! but this time we press 'R' for normal, a \$1 should appear and when we press Play the Program will Load into the Memory.

While its Loading lets deal with the other options. 'Save' pretty obvious really except that we will be asked if we want to insert any Delays or not. 'Verify' is what we'd all do to our recorded Programs if we had the time. 'Cat' will catalogue the Tape, useful if, like me, you've got ten Tapes that you don't know what's on them. Careful though, once the info has scrolled off the screen you can't get it back.

Meanwhile, back at the Ranch, you've read in the back-up tape. To get back in control press Space or Break. Pressing 'P' brings up the FILE menu 'List Delete Move Status' 'L' brings program #1 on the screen telling us that it's called 'MCODE', it's a Program File, 30 bytes long, has no additional bytes as variables and will auto run from Line 1. Program #2 is also called 'MCODE' but is a Machine Code File, still if allowed to load to Memory location 80000 onwards and is 15555 bytes long. 'D' allows you to Delete selected files and 'M' allows you to Move selected files. These two of dubious value, but that's a personal view.

'E' for Edit gets us to the really powerful part of the Program. When in the edit menu press a number to select the program that you want to Edit. Options under the Number will show 'Type Header Exceptions Find/Chg'. 'T' for Type brings us the options 'Prog Data Code Holes Other' some interesting possibilities here! May-be change from Prog to Data then load the whole thing as a String into a Variable and Inspect It. Moving on to a Code File and selecting Header gives more interesting possibilities, being able to chance the Name, Start Address or Length of the File. 'E' for Exceptions takes us on into very murky water indeed. Header or Block gives us Flag Parity Check. What to do with these is unclear at the moment however I'm hoping that 'the fullness of time' will allow the mud to settle. In the mean time I hope that my review will allow you to start using your Z80K-UP.

#### Z80 SPECIAL OFFER

This computer is the ultimate portable computer and a real must for the business or the job and outside the office or away on holidays. This computer is not limited to the business profession, if you are at all interested in education, a teacher, professor or even student then this computer is a must. The Z80 is trusted.

- Standard Keyboard for distinguishing typing during lectures or conferences
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- On Special for this month only

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